

Going Forward

The Next Prioritization Data Screen

For Candidate Chemicals Tracked for
Carcinogenicity



Prioritization: Next Steps

Screening of Candidate Chemicals

1. Re-apply **Epidemiology Data Screen**
 - May identify a few chemicals
2. Apply one or more **Animal Data Screens**
3. Conduct *Preliminary Toxicological Evaluation* of chemicals identified through these screens

Identify the next group of Chemicals Proposed for Committee Consideration



Item for CIC Discussion and Advice

Today we are asking for CIC input on Animal Data Screens for use in the next round of prioritization



- *CRITERIA FOR IDENTIFYING CHEMICALS FOR LISTING AS “KNOWN TO THE STATE TO CAUSE CANCER”*
- *Preamble to the International Agency for Research on Cancer (IARC) Monographs on the Evaluation of Carcinogenic Risks to Humans*



Animal Data Screens

Screen 1

Chemicals with

- Two or more positive* animal cancer bioassays; or
- One positive* animal cancer bioassay, with
 - Malignant (or combined malignant and benign) tumors occurring to an unusual degree with regard to incidence, site or type of tumor or age at onset; or
 - findings of tumors at multiple sites

* An increased incidence of malignant or combined malignant and benign tumors



Animal Data Screens (continued)

Screen 2

Chemicals with

- **One positive* animal cancer bioassay and**
 - Structure-activity comparisons with a known carcinogen; or
 - Evidence from a second animal study of benign tumors known to progress to malignancy; or
 - Evidence that the chemical operates by a mechanism known to be involved in human carcinogenesis (e.g., genotoxicity, altered gene expression, immune suppression, hormone disruption)

* An increased incidence of malignant or combined malignant and benign tumors



Committee discussion and advice regarding animal data screens

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